

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455343

Luminaire Tested: **GALN-SA6C-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38694 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

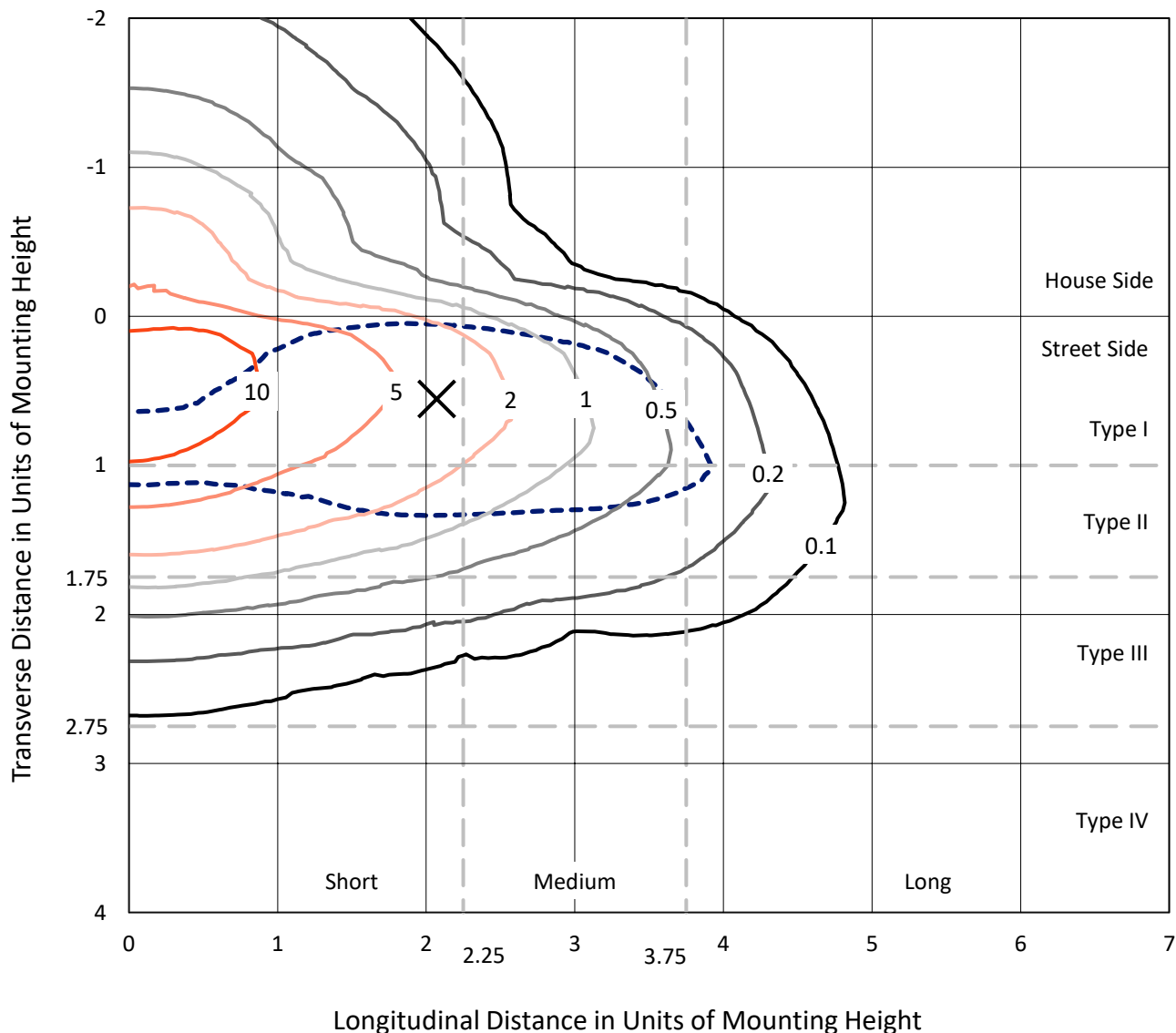
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455343
 CATALOG NUMBER: GALN-SA6C-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

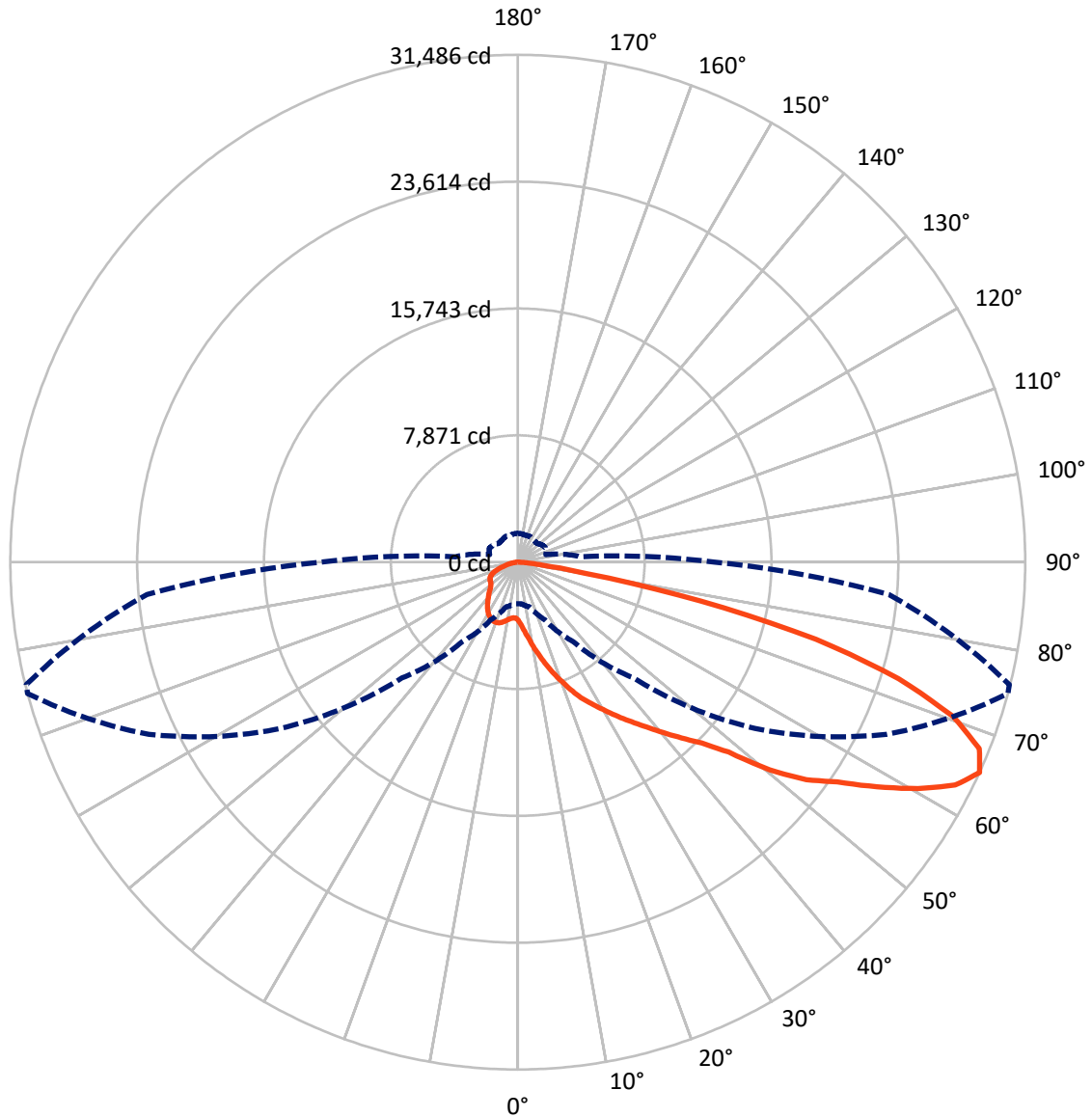
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

REPORT NUMBER: P455343
CATALOG NUMBER: GALN-SA6C-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P455343

CATALOG NUMBER: GALN-SA6C-730-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6505.0	0.0	6505.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32189.0	0.0	32189.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	38694.0	0.0	38694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.8	1.1
10°-20°	1710.9	4.4
20°-30°	3304.9	8.5
30°-40°	5368.1	13.9
40°-50°	7384.3	19.1
50°-60°	8718.3	22.5
60°-70°	7638.7	19.7
70°-80°	3646.8	9.4
80°-90°	485.2	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	38694.0	100.0
0°-180°	38694.0	100.0

Coefficient of Utilization

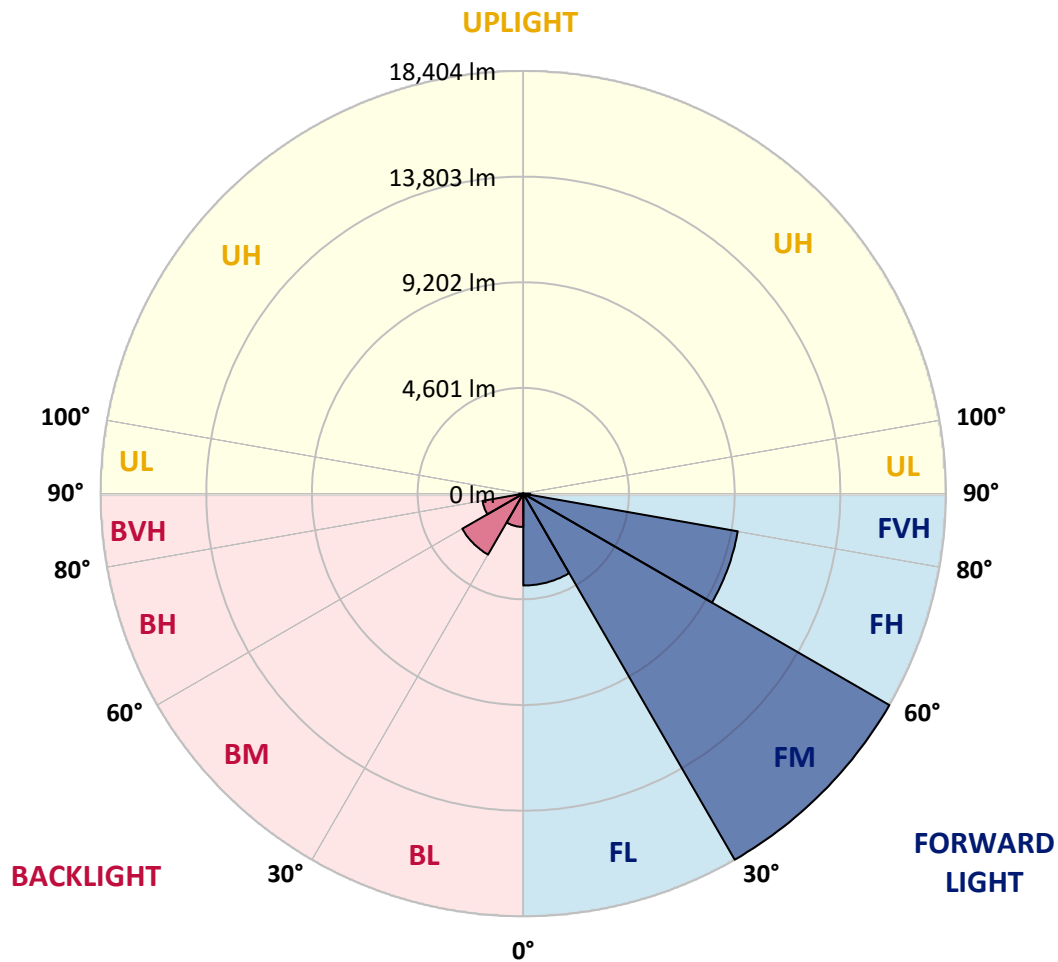


REPORT NUMBER: P455343
 CATALOG NUMBER: GALN-SA6C-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4000.3	10.3			
FM	(30°-60°)	18403.7	47.6			
FH	(60°-80°)	9481.8	24.5			G4/12000
FVH	(80°-90°)	303.2	0.8			G3/500
BL	(0°-30°)	1452.2	3.8	B3/2500		
BM	(30°-60°)	3067.0	7.9	B3/5000		
BH	(60°-80°)	1803.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	182.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





REPORT NUMBER: P455343

CATALOG NUMBER: GALN-SA6C-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2
2.5°	4776.8	4745.3	4711.7	4619.4	4520.7	4409.5	4250.0	4096.8	3893.2	3886.9	3735.8
5°	6101.1	6080.1	5931.1	5845.0	5616.3	5311.9	5053.8	4652.9	4281.5	4237.4	3943.6
7.5°	7318.3	7236.5	7179.8	7024.5	6797.9	6407.5	5908.0	5366.5	4745.3	4686.5	4199.6
10°	8235.5	8227.1	8197.7	8063.4	7893.4	7505.1	6951.1	6174.5	5332.9	5217.5	4510.2
12.5°	8921.8	8928.1	8923.9	8921.8	8800.1	8470.6	7870.3	7051.8	5926.9	5845.0	4869.1
15°	9373.0	9436.0	9461.2	9566.1	9576.6	9356.2	8839.9	7899.7	6596.4	6474.6	5255.3
17.5°	9671.0	9702.5	9820.1	9998.5	10143.3	10103.4	9643.8	8684.6	7280.6	7077.0	5656.1
20°	9956.5	10011.0	10101.3	10344.7	10600.8	10718.3	10395.1	9488.5	7958.5	7828.3	6099.0
22.5°	10550.4	10628.1	10659.6	10783.4	11001.7	11209.4	11062.5	10258.7	8701.4	8525.1	6569.1
25°	11555.7	11637.6	11549.4	11520.0	11591.4	11694.2	11662.8	10984.9	9402.4	9150.6	7014.0
27.5°	12865.3	12875.8	12703.7	12540.0	12363.7	12311.3	12214.7	11629.2	10011.0	9801.2	7461.1
30°	14271.5	14221.1	13935.7	13639.8	13341.8	13047.9	12770.9	12250.4	10688.9	10447.6	7899.7
32.5°	15576.9	15549.6	15232.7	14773.1	14269.4	13992.4	13432.0	12877.9	11415.1	11182.1	8350.9
35°	16555.0	16594.8	16246.4	15744.8	15195.0	14949.4	14242.1	13536.9	12166.5	11912.5	8842.0
37.5°	17249.6	17228.7	16920.1	16485.7	16003.0	15788.9	15188.7	14256.8	12974.5	12731.0	9379.3
40°	17497.3	17484.7	17255.9	16939.0	16632.6	16557.1	16179.3	15033.4	13900.0	13614.6	10025.7
42.5°	17339.9	17367.2	17216.1	17130.0	17073.3	17127.9	17163.6	16051.3	14909.5	14647.2	10726.7
45°	16857.2	16842.5	16821.5	16962.1	17281.1	17640.0	18137.4	17012.5	16007.2	15797.3	11667.0
47.5°	15994.6	16099.5	16152.0	16540.3	17237.0	18087.0	19258.1	18301.1	17600.1	17417.5	13100.4
50°	14787.8	14871.8	15182.4	15872.9	16911.7	18254.9	20353.7	20408.3	20257.1	19915.1	14657.7
52.5°	12903.1	13033.2	13673.4	14938.9	16244.3	18185.7	21016.9	22215.3	22414.7	22158.6	16191.9
55°	10793.9	10976.5	11652.3	13312.4	15325.1	17807.9	21474.4	23262.6	24058.0	23820.8	17669.4
57.5°	8728.7	8921.8	9616.5	11224.1	13721.6	16972.6	21774.5	24429.5	26295.3	25986.7	19507.9
60°	6541.8	6743.3	7339.3	8995.2	11438.2	15339.8	21571.0	25441.1	28530.4	28398.2	21348.5
62.5°	4220.6	4443.1	4961.4	6331.9	8791.7	13108.8	20481.7	25999.3	30465.5	30306.0	22691.7
65°	2571.0	2596.2	2881.6	3931.0	6017.1	10149.6	17990.5	25258.5	31485.5	31437.2	23101.0
67.5°	1662.2	1702.1	1832.2	2354.8	3607.8	7049.7	14384.8	22813.4	30889.4	30872.6	22255.2
70°	1404.1	1416.7	1475.4	1588.8	2096.7	4275.2	10101.3	18916.0	28624.9	28624.9	20221.5
72.5°	1255.1	1271.8	1292.8	1328.5	1496.4	2422.0	6027.6	14724.8	24714.9	24878.6	17211.9
75°	1139.6	1135.4	1148.0	1154.3	1276.0	1582.5	3116.6	10890.4	19119.6	18792.2	12464.5
77.5°	975.9	982.2	975.9	1003.2	1127.0	1204.7	1582.5	7307.9	11587.2	11163.3	6256.4
80°	801.7	812.2	822.7	839.5	963.3	915.1	950.7	3330.7	4285.7	4195.4	1933.0
82.5°	602.3	617.0	633.8	673.7	757.6	604.4	600.2	1423.0	1546.8	1416.7	711.5
85°	243.5	287.5	434.4	474.3	476.4	331.6	369.4	593.9	631.7	617.0	279.1
87.5°	56.7	67.2	140.6	212.0	195.2	123.8	136.4	193.1	220.4	203.6	94.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455343

CATALOG NUMBER: GALN-SA6C-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2	3595.2
2.5°	3666.5	3593.1	3467.1	3370.6	3301.3	3240.5	3202.7	3179.6	3171.2	3169.1	3171.2
5°	3790.3	3660.2	3460.8	3334.9	3265.7	3225.8	3202.7	3200.6	3202.7	3204.8	3198.5
7.5°	3960.3	3773.6	3513.3	3395.8	3343.3	3313.9	3303.4	3299.2	3301.3	3299.2	3299.2
10°	4187.0	3931.0	3616.1	3494.4	3450.3	3416.8	3400.0	3389.5	3381.1	3372.7	3368.5
12.5°	4436.8	4105.2	3727.4	3609.9	3546.9	3494.4	3456.6	3429.4	3410.5	3391.6	3387.4
15°	4715.9	4289.8	3851.2	3687.5	3597.3	3519.6	3454.5	3410.5	3376.9	3349.6	3347.5
17.5°	4982.4	4464.0	3935.2	3723.2	3591.0	3481.8	3395.8	3334.9	3292.9	3257.3	3253.1
20°	5267.9	4629.8	3972.9	3700.1	3528.0	3395.8	3282.4	3209.0	3160.7	3120.8	3114.5
22.5°	5555.4	4770.5	3968.7	3626.6	3418.9	3263.6	3143.9	3066.3	3009.6	2969.7	2955.0
25°	5830.3	4883.8	3916.3	3509.1	3267.8	3106.2	2984.4	2913.1	2862.7	2814.4	2814.4
27.5°	6078.0	4951.0	3817.6	3366.4	3112.4	2942.4	2845.9	2780.8	2734.7	2703.2	2684.3
30°	6321.4	4982.4	3683.3	3185.9	2948.7	2803.9	2726.3	2688.5	2646.5	2610.8	2606.6
32.5°	6539.7	4976.1	3515.4	3009.6	2793.4	2690.6	2659.1	2629.7	2585.7	2535.3	2522.7
35°	6751.7	4934.2	3316.0	2816.5	2663.3	2623.4	2631.8	2589.9	2510.1	2447.1	2436.7
37.5°	6982.5	4858.6	3097.8	2659.1	2554.2	2592.0	2612.9	2520.6	2390.5	2291.8	2268.8
40°	7249.1	4772.6	2871.1	2501.7	2468.1	2562.6	2562.6	2392.6	2214.2	2153.3	2136.5
42.5°	7561.8	4701.2	2682.2	2369.5	2396.8	2491.2	2480.7	2222.6	2149.1	2117.6	2109.2
45°	8057.1	4676.0	2487.0	2254.1	2338.0	2407.3	2321.2	2163.8	2121.8	2096.7	2088.3
47.5°	8839.9	4705.4	2314.9	2168.0	2270.8	2323.3	2142.8	2123.9	2094.6	2058.9	2054.7
50°	9566.1	4678.1	2193.2	2119.7	2212.1	2222.6	2069.4	2075.7	2058.9	2019.0	2010.6
52.5°	10160.1	4592.1	2115.5	2094.6	2161.7	2046.3	2000.1	2023.2	2016.9	1966.5	1958.1
55°	10812.8	4539.6	2077.8	2094.6	2128.1	1893.1	1935.0	1968.6	1960.2	1924.6	1922.5
57.5°	11604.0	4550.1	2050.5	2100.9	2094.6	1815.4	1870.0	1909.9	1907.8	1897.3	1897.3
60°	12414.1	4554.3	2008.5	2098.8	2054.7	1754.6	1802.8	1859.5	1863.7	1870.0	1870.0
62.5°	12682.8	4371.7	1926.7	2061.0	1966.5	1695.8	1739.9	1817.5	1813.3	1830.1	1832.2
65°	12181.2	3865.9	1804.9	1974.9	1853.2	1653.8	1691.6	1763.0	1739.9	1783.9	1792.3
67.5°	11087.7	3198.5	1616.0	1819.6	1727.3	1609.7	1660.1	1687.4	1645.4	1731.5	1733.6
70°	9582.9	2497.5	1376.8	1599.2	1584.6	1563.6	1634.9	1593.0	1534.2	1639.1	1618.1
72.5°	8013.0	1907.8	1099.7	1307.5	1393.6	1494.3	1590.9	1471.2	1389.4	1420.9	1383.1
75°	6019.2	1410.4	883.6	1024.2	1160.6	1395.7	1551.0	1324.3	1198.4	1169.0	1160.6
77.5°	3068.4	921.4	661.1	766.0	871.0	1261.3	1496.4	1152.2	992.7	946.5	925.5
80°	1095.5	573.0	465.9	528.9	587.7	1085.1	1307.5	952.8	770.2	761.8	770.2
82.5°	507.9	369.4	312.7	346.3	348.4	724.1	996.9	711.5	585.6	889.9	751.4
85°	218.3	184.7	176.3	172.1	159.5	323.2	560.4	382.0	596.0	266.5	245.6
87.5°	65.1	73.5	65.1	48.3	35.7	35.7	56.7	21.0	14.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)